

SYSTEM DATA SHEET

Sikagard®-7000 CR

Highly chemical resistant, crack-bridging system based on Xolutec® for protection of concrete water infrastructure in harsh conditions as well as drinking water tanks.

DESCRIPTION

Sikagard®-7000 CR is a concrete protection system based on Xolutec® technology and designed for the protection of water infrastructures exposed to chemical attack and/or biogenic sulfuric acid deterioration as well as for drinking water tanks.



Xolutec is an innovative and smart way of combining complementary chemistries. When the material is mixed on site a cross linked interpenetrating network (XPN) is formed enhancing the overall material properties. By controlling the cross-linking density, the properties of Xolutec can be adjusted depending on the product performance required, e.g. this allows the formulation of materials with varying degrees of toughness and flexibility. Xolutec is very low in volatile organic components (VOC), is quick and easy to apply with both spray and hand application depending on requirements. It cures rapidly even at low temperature, reducing application time thus enabling fast return to service and minimizing downtime. This technology is not sensitive to moisture and tolerates a wide variety of different site conditions, greatly expanding the application window and reducing the potential for delays and failures. Long maintenance cycles and lower life cycle costs significantly reduce total cost of ownership.

USES

For concrete protection in:

- Sewers, Sludge treatment tanks, Biogas tanks
- Primary and secondary treatment tanks in the waste water treatment plants. Chemical Storage Tanks, Fire Hydrant tanks
- Water treatment of process water at chemical, food & beverage, pharmaceutical industry
- Drinking water tanks

CHARACTERISTICS / ADVANTAGES

- High resistance to a wide range of chemicals including organic acids, solvents and biogenic sulfuric acid
- Crack-bridging (static): 0.5 mm at +23°C
- Moisture tolerant during application
- Fast curing to allow fast system installation
- Food Grade, Solvent free, low odour & VOC emissions

APPROVALS / STANDARDS

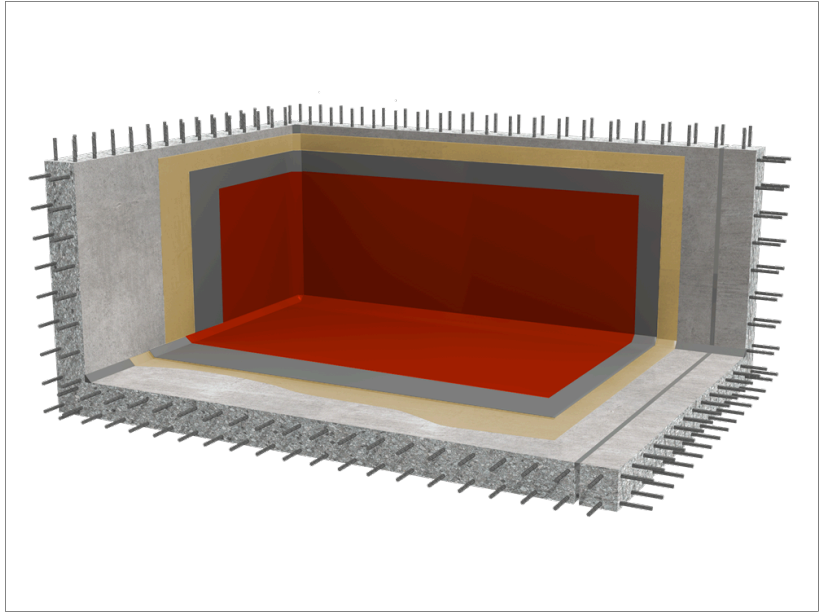
- CE Certification according to EN 1504-2
- Biogenic sulfuric acid corrosion resistance of Sikagard®-7000 CR, Fraunhofer, Test Report No. 20241010A
- Chemical Resistance according to EN 13529
- Bond Strength and blistering if exposed to reverse moisture according to DAfStb Repair Guideline
- DIBt-Approval for use in concrete in biogas facilities, tanks, bunker silos and for containment areas in storage and filling of liquid manure and silage (JGS)
- Determination of methane permeability (7000 CR Methandurchlässigkeit, Fachlaboratorium für Permeationsprüfung Wiebaden)
- Reaction to fire EN13501-1, Sikagard® P770 + Sikagard® M790, GHENT, Test Report No. CR 24-0756-01
- Food grade test USDA 175.300 1st Apr 2017, Sikagard M 790, CFTRI Mysore, Report dated 17 Nov.2019.

PRODUCT INFORMATION

Packaging	Application	Product	Pack size
	Primer	Sikagard® P 770 N	10kg
	Topcoat	Sikagard® M 790	5kg
Shelf life	12 months in unopened pails if stored under below mentioned storage conditions.		
Storage conditions	The product must be stored in unopened, original containers under dry conditions at temperatures between 10 - 25° C preferably. Protect from frost and no permanent storage over +30 °C.		

SYSTEM INFORMATION

System structure



Primer	Thickness	Consumption
Sikagard® P 770 N: 1 coat on smooth substrates with low absorption	~0.2 mm	0.2 to 0.3 kg/m ²
Alternative - Sikagard® P 770 N: 2 coats on slightly irregular, absorbing substrates	~0.3 mm	1st coat: 0.2 to 0.3 kg/m ² + 2nd coat: ~0.2 kg/m ²
Optional - Sikagard® P 770 N scatchcoat: Sikagard P 770 N mixed 1:1 with fine silica sand (0.1 - 0.3 mm) and Sika® Extender T (1% on total weight of mix); for irregular, rough substrates or filling of pin-holes	0.4 to 0.7 mm	0.8 to 1.2 kg/m ²

Membrane (hand application)	Thickness	Consumption
Sikagard® M 790 - 1st coat	~0.4 mm	0.4 to 0.5 kg/m ²
Sikagard® M 790 - 2nd coat	~0.4 mm	0.4 to 0.5 kg/m ²
Optional (in case of very high chemical & mechanical impact): Sikagard® M 790 - 3rd coat	~0.4 mm	0.4 to 0.5 kg/m ²
Membrane (spray application)	Thickness	Consumption
Sikagard® M 790	From 0.8 mm (normal conditions, possible in one coat) up to 1.2 mm (harsh conditions, 2 coat application)	0.8 to 1.0 kg/m ² (normal conditions) 1.2 to 1.4 kg/m ² (harsh conditions)

Please refer to Sikagard®-7000 CR Application Manual for further details.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER DOCUMENTS

Detailed Chemical Resistance Chart available on request.

IMPORTANT CONSIDERATIONS

For professional use only!

Please refer to the relevant Product Data Sheets and the Sikagard®-7000 CR Application Manual for safe installations.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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